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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,701	12/16/2005	Paul Caron	06670/0203420/US0	4333
7278 7590 12/16/2008 DARBY & DARBY P.C.			EXAMINER	
P.O. BOX 770)	HENDRICKSON, STUART L		
Church Street New York, NY			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			12/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)				
10/550,701	CARON ET AL.				
Examiner	Art Unit				
Stuart Hendrickson	1793				

		Stuart Heridiickson	1793	
Period fo	The MAILING DATE of this communication appe r Reply	ars on the cover sheet with the c	orrespondence ad	dress
WHICI - Extensiafter S - If NO - Failure Any re	ORTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DA's sions of time may be available under the provisions of 37 CFR 1.73 control of 17 CFR 1	TE OF THIS COMMUNICATION (a). In no event, however, may a reply be tim I apply and will expire SIX (6) MONTHS from ause the application to become ABANDONEI	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	
Status				
2a)□ 3)□	Responsive to communication(s) filed on	action is non-final. ce except for formal matters, pro		merits is
Dispositio	on of Claims			
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawi Claim(s) is/are allowed. Claim(s) <u>1-4. 15. 16</u> is/are rejected. Claim(s) <u>5-14 and 17-20</u> is/are objected to. Claim(s) are subject to restriction and/or			
Application	on Papers			
10)□ 1	The specification is objected to by the Examiner. The drawing(s) filed onislare: a) accer Applicant may not request that any objection to the di Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration is objected to by the Examinary The oath or declaration	oted or b) objected to by the E rawing(s) be held in abeyance. See in is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CF	
Priority u	nder 35 U.S.C. § 119			
a)[2	Acknowledgment is made of a claim for foreign p All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Applicati y documents have been receive (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment	t(s)			

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SE/C8)

Paper No(s)/Mail Date 9/26/05.

 Interview Summary (PTO-413)
 Paper No(s)/Mail Date.
_____. 5) Notice of Informal Patent Application

6) Other: ___

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Claims 5-20 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from a multiple dependent claim. See MPEP § 608.01(n). Accordingly, claims 5-14, 17-20 have not been further treated on the merits.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4, 15, 16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A) In claim 1, section a) in its entirety is not clear; especially what 'upwardly delimited' and 'thermal path' mean. It is noted that all materials have a phase diagram as an inherent property and that applicant cannot change it.

B) Claim 1 part c) is unclear as to what is actually done. It is suggested that the claims be rewritten to describe the starting material, the steps performed and the final product.

Applicant should provide references alluded to on specification pages 3-7.

The claims are so unclear that a meaningful search and application of the prior art is not possible, however the following is offered for the sake of completeness:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/550,701

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Claims 1, 2 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Rudy 4066451.

Rudy teaches in col. 7 and 10 in particular melting tungsten carbide and re-solidifying it. See example L in table 3 and compare to present specification.

Claims 1, 2 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Moustakas 4804583.

The reference teaches, especially in col. 2, irradiating a tungsten carbide target to vaporize it ('subjecting to homogenization') and depositing it as a solid on a substrate ('quenching to freeze'). Step a is met because tungsten carbide inherently has the same phase diagram.

Claims 1, 3, 4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kruse et al. pg pub.

Kruse teaches, especially in ex. 1, grinding (thus homogenizing) tungsten carbide. While the shape is not disclosed, using oddly shaped particles (if not done by the reference) is an obvious expedient to convert them to an usable form.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (571) 272-1351.

/Stuart Hendrickson/ examiner Art Unit 1793